

# SAT Chemistry Subject Test Secrets Study Guide: SAT Subject Exam Review for the SAT Subject Test (Mometrix Secrets Study Guides)

SAT Subject Exam Secrets Test Prep Team



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SAT Chemistry Subject Test Secrets Study Guide: SAT Subject Exam Review for the SAT Subject Test (Mometrix Secrets Study Guides) SAT Subject Exam Secrets Test Prep Team \*\*\*Includes Practice Test Questions\*\*\* Get the test prep help you need to be successful on the SAT Chemistry Subject test. The SAT Chemistry Subject Test is extremely challenging and thorough test preparation is essential for success. SAT Chemistry Subject Test Secrets Study Guide is the ideal prep solution for anyone who wants to pass the SAT Chemistry Subject Test. Not only does it provide a comprehensive guide to the SAT Chemistry Subject Test as a whole, it also provides practice test questions as well as detailed explanations of each answer. SAT Chemistry Subject Test Secrets Study Guide includes:

- A detailed overview of the SAT Chemistry Subject Test
- A full study of the structure of matter
- An examination of the states of matter
- A breakdown of reaction types
- An in-depth look at stoichiometry
- A thorough review of equilibrium and reaction rates
- An analysis of thermochemistry
- A guide to descriptive chemistry
- An extensive review of the laboratory
- · Comprehensive practice questions with detailed answer explanations

It's filled with the critical information you'll need in order to do well on the test: the concepts, procedures, principles, and vocabulary that the College Board expects you to have mastered before sitting for the exam. **The Structure of Matter section covers:** 

- Particulate structure of matter
- Chemical/physical properties/changes
- Current model of atomic structure / electron configuration
- Electronic absorption and emission spectra
- Bonding and structure

#### The States of Matter section covers:

- Organization of matter
- · Kinetic molecular theory and ideal gas laws
- Solutions and solubility

#### The Reaction Types section covers:

- Oxidation-reduction reactions
- Properties of acids and bases
- pH scale
- Acid-base titrations
- · Equilibrium relationships in acid-base chemistry

#### The Stoichiometry section covers:

- Mole concept
- Balancing chemical equations and stoichiometry

#### The Equilibrium and Reaction Rates section covers:

- Chemical kinetics
- Chemical reaction equilibrium
- Equilibrium in ionic solutions

#### The Thermochemistry section covers:

- Conservation of energy and matter
- Forms of energy
- Temperature and thermal energy
- Phase transitions
- Energetics of chemical reactions / laws of thermodynamics

#### The Descriptive Chemistry section covers:

- Naming simple inorganic compounds
- Naming common organic compounds
- Periodic table and trends
- Important biochemical compounds
- Common organic compounds

#### The Laboratory section covers:

- Processes involved in scientific inquiry / experimental design
- Nature of scientific knowledge / historical developments
- Data, measurement, and analysis
- Laboratory and safety

These sections are full of specific and detailed information that will be key to passing the SAT Chemistry Subject Test. Concepts and principles aren't simply named or described in passing, but are explained in detail. The guide is laid out in a logical and organized fashion so that one section naturally flows from the one preceding it. Because it's written with an eye for both technical accuracy and accessibility, you will not have to worry about getting lost in dense academic language.

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